

As
Conc'd
Sub B4 end

constant height with respect to a rotationally symmetrical aspheric shape generally followed by said objective lens.

As
Sub B6

8. An optical scanning device according to claim 6, wherein the radial widths of said zones are selected in dependence on the comatic aberration to be compensated for.

As
Sub B8

11. An optical scanning device according to claim 8, wherein said zones comprise a zone (b) with a nonzero height, measured in relation to said aspheric shape, located in the region in which the normalized pupil coordinate p ranges from 0.9 to 1.00.

As
Sub B10

13. An optical scanning device according to claim 6, wherein the heights of said zones are selected substantially optimally in relation to the comatic aberration to be compensated for.

As
Sub B10

14. An optical scanning device according to claim 7, wherein the number of said zones is greater than four.

15. An optical scanning device according to claim 8, wherein the number of said zones is less than ten.

16. An optical scanning device according to claim 9, wherein said non-periodic phase structure is formed on the surface of said objective lens.